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(11)

EP 0 661 843 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
10.11.1999 Bulletin 1999/45

(51) Int. Cl.⁶: H04L 9/22

(43) Date of publication A2:
05.07.1995 Bulletin 1995/27

(21) Application number: 94119371.6

(22) Date of filing: 08.12.1994

(84) Designated Contracting States:
BE DE FR GB IT NL SE

(30) Priority: 31.12.1993 ES 9302742

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(54) Device for implementation of DECT encryption algorithm with reduced current consumption

(57) The invention has application to the implementation of the DECT standard data ciphering algorithm which requires a lengthy procedure of key loading and logic operations during the stages of pre-ciphering and ciphering and requiring clocks operating at different frequencies.

This device performs parallel mode loading of the shift registers, with a ciphering keyword. It also calculates, in a first cycle, during the pre-ciphering, the values of the bits of each shift register that determine the value of the next shift in order to, in a second cycle, effect parallel mode shifting in these registers with a value equal to the sum of the two previous shift values.

During the ciphering process, the shifting is done in the registers, in parallel mode and in a single data clock cycle, with a value equivalent to the serial value obtained by the algorithm.

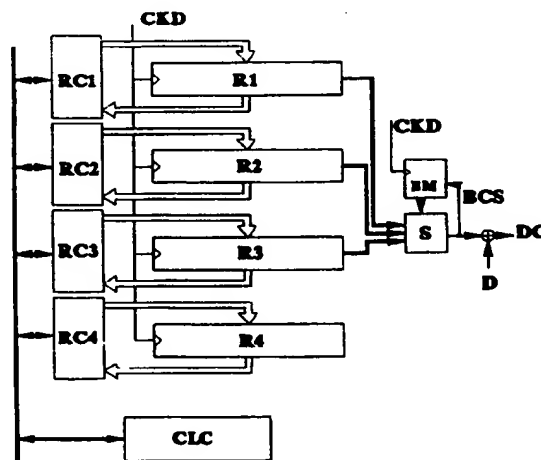


FIG. 5



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EUROPEAN SEARCH REPORT

Application Number
EP 94 11 9371

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 September 1999	Examiner HOLPER, G
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons Δ : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
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